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TECHNICAL DATASHEET  
**PACIFIC VALVES®**  
Forged Pressure Seal Valves



Crane ChemPharma & Energy

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# Index

|  |     |
|--|-----|
| Gate Valves.....                         | 3   |
| Parallel Disc Gate Valve .....           | 4   |
| Wedge Gate Valve.....                    | 5   |
| Technical Data.....                      | 6-7 |
| Y-Globe Non-Return Stop Check Valve..... | 8   |
| Technical Data.....                      | 9   |
| Swing Check Valve.....                   | 10  |
| Technical Data.....                      | 11  |

# Overview Gate Valves

## Selection

**TYPE AND SIZE** – Select the best type of valve for the intended service (gate, globe, or check). Gate and globe valves are available with a selection of wedge or disc and body configurations for different services. Valves may be sized to match existing lines, but they should also be sized according to flow conditions for maximum service life.

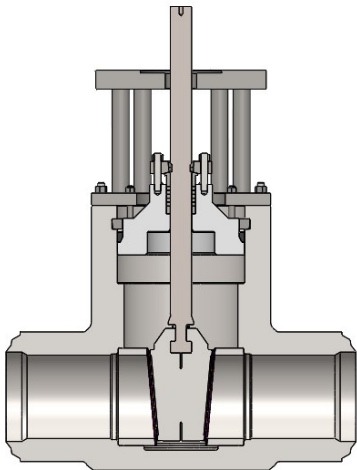
**RATINGS** – Valves must only be used in design conditions within the appropriate ASME pressure-temperature ratings for valve class and body/bonnet material (see Technical Data section).

**TEMPERATURE LIMITATIONS** – Only use valves within the temperature limitations of their construction. Temperature limitations of body/bonnet materials, trim, bolting and packing, and gaskets must all be considered. Special construction for extended service temperatures are available by application.

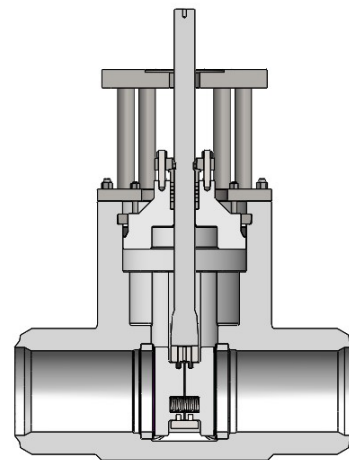
**MATERIAL AND SERVICE** – Pressure Seal valves are available in a variety of body/bonnet materials and trims. Specified materials should be compatible with the service.

## Gate Valves

1. Gate valves are normally used for on-off service. They are not recommended for throttling service.
2. Gate valves are normally installed in horizontal pipe runs with the valve stem vertically up. They can also be installed in vertical or horizontal pipe runs with the valve stem other than vertical, but special construction may be required depending on valve size, service conditions and material. When purchasing valves for other than the normal installation, valve orientation should be specified when consulting the factory.
3. After closing a wedge gate valve with sufficient force to develop shutoff, the stem should be backed off slightly (1/8 to 1/4 turn) to relieve stem load. This will enable the stem to expand slightly without bending or damaging the valve and will not affect valve shutoff.
4. Gate valves are offered in two designs: Parallel Disc and Flexible Wedge. Parallel Disc are position seated; Flexible Wedge are torque seated when closing.
5. Can be installed bidirectionally.



**Wedge Gate Valve**



**Parallel Disc Gate Valve**



# Overview Parallel Disc Gate Valve

## STEM

The new T-head design allows the carrier assembly to self-align, provides additional strength, and reduces the possibility of a bent stem.

## PRESSURE SEAL

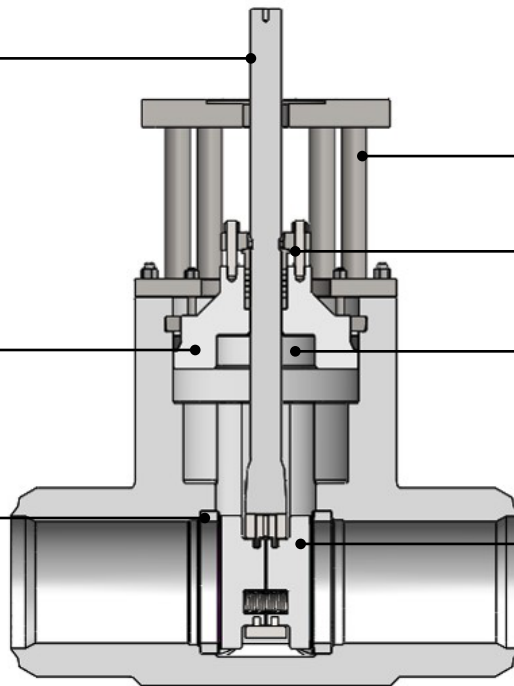
Uncomplicated design has segmented retaining ring and graphite/SS Caps\* gasket to aid disassembly and provide maximum bonnet seal.

## SEAT

Fully encapsulated seats to avoid delamination, same as our cast design. Welded-in seat rings are perpendicular to the flow bore for easy maintenance.

## LARGE BW ENDS

Match two different OD



## \*ACTUATORS

Valves can be supplied with any type of electric, hydraulic, or pneumatic actuator. Standard manual handwheels on valves 12" and smaller with 14" and larger bevel gear operated.

## YOKE

Fully fabricated yoke is seismically qualified while offering easy maintenance and actuator mounting.

## GLAND

Two piece, self-aligning gland eliminates cocking.

## INTEGRAL BACKSEAT

Hard faced for maximum life.

## DISCS

Spring-loaded discs are self-aligning and reduce actuator torque requirements.

## FULLY GUIDED WEDGES & DISCS

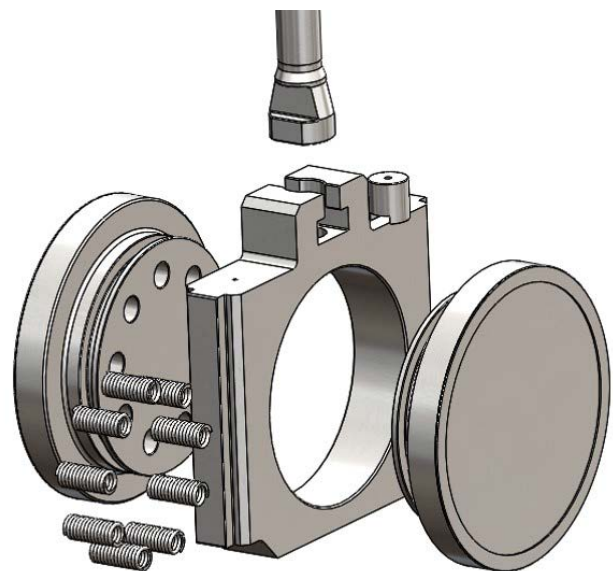
Ensure positive shut-off in both horizontal & vertical orientation, reduction of currently known field failures

\*Pacific Valve® offers Graphite/SS Capsulated Pressure Seal Bonnet Gaskets as a standard, Mild Steel Silver Plated Pressure Seal Bonnet Gaskets are available on request.

## Parallel Seat Gate Valve

Parallel seat gate and seat ring construction can be furnished for high differential pressure services or where high piping loads or thermal expansion may cause sticking of a wedge type gate. The parallel seat gate assembly consists of two interchangeable spring-loaded discs, a fully guided disc carrier, and retaining pins.

Position seating eliminates stress and potential binding due to thermal expansion of the stem. Spring-loaded discs help maintain contact between the discs and seat rings during initial sealing and eliminate vibration. Discs are interchangeable which simplifies in-line maintenance and eliminates the need to custom fit the seats to the discs. Internal stops provide positive over travel protection for power actuated valves and act as a reference to position the discs in the open and closed positions. This design features low seating torque which reduces actuator size and cost. Hard faced seating surfaces provide high cycle capability in very high differential pressure services.





# Overview Wedge Gate Valve

## STEM

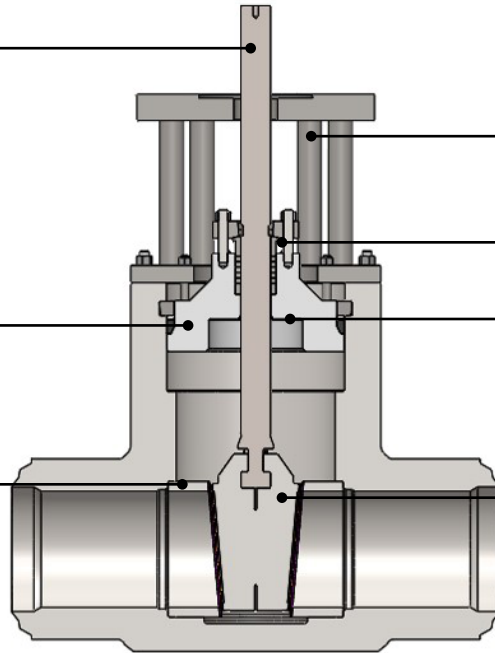
The new T-head design allows the carrier assembly to self-align, provides additional strength, and reduces the possibility of a bent stem.

## PRESSURE SEAL

Uncomplicated design has segmented retaining ring and graphite/SS Caps\* gasket to aid disassembly and provide maximum bonnet seal.

## SEAT RING

Hard faced seat rings are welded to body. Tapered design provides unobstructed flow path.



## ACTUATORS

Valves can be supplied with any type of electric, hydraulic, or pneumatic actuator. Standard manual handwheels on valves 12" and smaller with 14" and larger bevel gear operated.

## YOKE

Fully fabricated yoke is seismically qualified while offering easy maintenance and actuator mounting.

## GLAND

Two piece, self-aligning gland eliminates cocking.

## INTEGRAL BACKSEAT

Hard faced for maximum life.

## WEDGE

One-piece, flexible wedge is fully guided, resists sticking or binding due to thermal expansion, has hardfaced seating surfaces for long life. Parallel seat or solid wedge also available.

## FULLY GUIDED WEDGES/DISCS

Ensure positive shut-off in both horizontal & vertical orientation, reduction of currently known field failures

\*Pacific Valve® offers Graphite/SS Capsulated Pressure Seal Bonnet Gaskets as a standard, Mild Steel Silver Plated Pressure Seal Bonnet Gaskets are available on request.

## Flexible Wedge

The flex wedge is a one piece, fully guided wedge with a central hub to allow the seating faces to move relative to each other thus compensating for distortion of the body seats due to thermal expansion or piping loads. Seat ring and wedge seating surfaces are set on a 5 degree angle from vertical to minimize sliding contact of the wedge and seat ring during opening and closing. Wedging actions help affect a tight seal in low differential pressure services. Flexible wedge construction resists wedge sticking or binding in services where the valve may be closed when hot and opened when cold. Seating surfaces are hard faced to provide high cycle capability in very high differential pressure services.





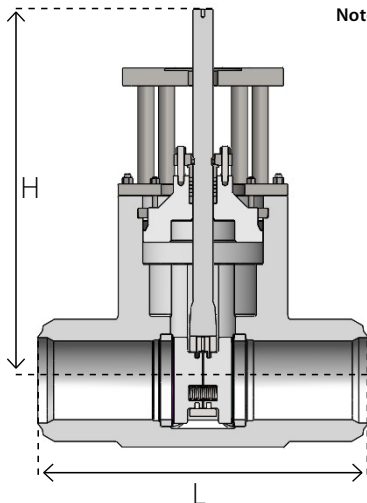
# Technical Data Parallel Disc Gate Valve

## Dimensions & Weights

| #600       |                    |          |                  |        |        |
|------------|--------------------|----------|------------------|--------|--------|
| Valve Size | ASME Short Pattern | Weight   | Custom Short End | Weight | H      |
| 12"        | NA                 | -        | NA               | -      | -      |
| 14"        | NA                 | -        | NA               | -      | -      |
| 16"        | NA                 | -        | NA               | -      | -      |
| 18"        | NA                 | -        | NA               | -      | -      |
| 20"        | 47.00"             | 6250.00  | 32.75"           | 5578   | 60.94" |
| 22"        | NA                 | -        | 36.25"           | 7598   | 68.00" |
| 24"        | 55.00"             | 10548.00 | 42.50"           | 9798   | 72.72" |
| 26"        | NA                 | -        | 41.25"           | 10845  | 77.64" |
| 28"        | NA                 | -        | 43.75"           | 13807  | 84.92" |
| 30"        | NA                 | -        | 46.45"           | 15945  | 87.26" |
| #1500      |                    |          |                  |        |        |
| 12"        | 39.00"             | 3030     | 27.00"           | 2703   | 43.99" |
| 14"        | 42.00"             | 3615     | 27.00"           | 3113   | 46.22" |
| 16"        | 47.00"             | 4866     | 29.50"           | 4142   | 51.46" |
| 18"        | 53.00"             | 6536     | 32.50"           | 5508   | 57.25" |
| 20"        | NA                 | -        | NA               | -      | -      |
| 22"        | NA                 | -        | NA               | -      | -      |
| 24"        | NA                 | -        | NA               | -      | -      |
| 26"        | NA                 | -        | NA               | -      | -      |
| 28"        | NA                 | -        | NA               | -      | -      |
| 30"        | NA                 | -        | NA               | -      | -      |
| #2500      |                    |          |                  |        |        |
| 12"        | 41.00"             | 3545     | 27.75"           | 3147   | 39.4"  |
| 14"        | 44.00"             | 4967     | 32.50"           | 4500   | 46.4"  |
| 16"        | 49.00"             | 6410     | 35.25"           | 5726   | 48.5"  |
| 18"        | 55.00"             | 8541     | 36.50"           | 7402   | 54.2"  |
| 20"        | NA                 | -        | NA               | -      | -      |
| 22"        | NA                 | -        | NA               | -      | -      |
| 24"        | NA                 | -        | NA               | -      | -      |
| 26"        | NA                 | -        | NA               | -      | -      |
| 28"        | NA                 | -        | NA               | -      | -      |
| 30"        | NA                 | -        | NA               | -      | -      |

Dimensions in inches, weights in pounds

**Note:** L : End to End Dimension  
H : Distance from Valve center to valve cap high point.



## Materials of Construction

| Part Description                    | Material                    |
|-------------------------------------|-----------------------------|
| BODY                                | ASTM A182 GR F91            |
| BONNET                              | ASTM A182 GR F91            |
| DISC                                | ASTM A182 GR F91+STELLITE 6 |
| DISC CARRIER                        | ASTM A182 GR F91            |
| CLIP                                | 11-13% CR                   |
| SPRING                              | INCONEL                     |
| SEAT RING                           | ASTM A182 GR F91+STELLITE 6 |
| THRUST RING                         | AISI 4340 OR 4140           |
| GLAND                               | 11-13% CR                   |
| JUNK RING                           | 11-13% CR                   |
| STEM                                | ASTM A182 F6A               |
| GLAND FLANGE                        | ASTM A515 GR 70             |
| SEGMENT RING                        | AISI 4140                   |
| BONNET CARRIER                      | ASTM A515 GR 70             |
| STUD ( BONNET-BONNET CARRIER JOINT) | ASTM A193 GR B7             |
| NUT ( BONNET-BONNET CARRIER JOINT)  | ASTM A194 GR 2H             |
| COLUMN PIPE                         | CARON STEEL                 |
| STUD ( BONNET CARRIER-COLUMN JOINT) | ASTM A193 GR B7             |
| NUT ( BONNET CARRIER-COLUMN JOINT)  | ASTM A194 GR 2H             |
| PACKING                             | GRAPHITE                    |
| STUD ( BODY-BONNET CARRIER JOINT)   | ASTM A193 GR B7             |
| NUT ( BODY-BONNET CARRIER JOINT)    | ASTM A194 GR 2H             |
| STUD ( BONNET - GLAND FLANGE JOINT) | ASTM A193 GR B7             |
| NUT ( BONNET - GLAND FLANGE JOINT)  | ASTM A194 GR 2H             |
| GASKET                              | GRAPHITE WITH SS CAPS       |
| ADAPTER PLATE MACHINING             | ASTM A515 GR 70             |
| BYPASS VALVE                        | ASTM A182 GR F91            |
| PIPE FOR BYPASS                     | ASTM A335 P91               |
| ELBOW FOR BYPASS                    | ASTM A182 GR F91            |
| T FITTING FOR BYPASS                | ASTM A182 GR F91            |
| HEX HEAD CAP SCREW, ACTUATOR        | MFG STD                     |
| AIR WRENCH ADAPTER FOR GEAR BOX     | MFG STD                     |

## Cv Values

|     |       |       |
|-----|-------|-------|
| 12" | #1500 | 6570  |
| 14" | #1500 | 7890  |
| 16" | #1500 | 10325 |
| 18" | #1500 | 13425 |
| 12" | #2500 | 4535  |
| 14" | #2500 | 5500  |
| 16" | #2500 | 7210  |
| 18" | #2500 | 9215  |
| 20" | #2500 | 11450 |
| 20" | #600  | 20950 |
| 22" | #600  | 25278 |
| 24" | #600  | 30850 |
| 26" | #600  | 36796 |
| 28" | #600  | 42398 |
| 30" | #600  | 48873 |

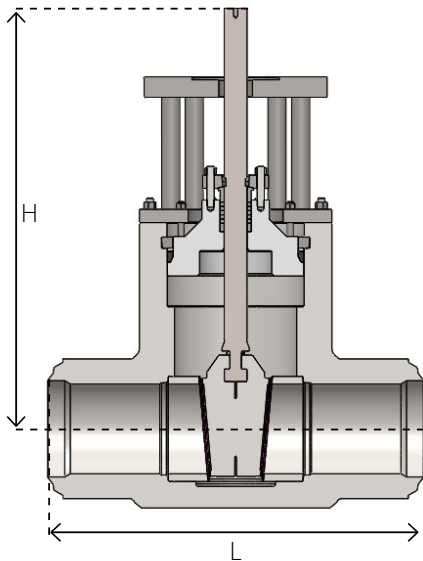
# Technical Data Wedge Gate Valve

## Dimensions & Weights

| #1500      |                  |        |        |
|------------|------------------|--------|--------|
| Valve Size | Custom Short End | H      | Weight |
| 12"        | 27.00"           | 43.65" | 2707   |
| 14"        | NA               | -      | -      |
| 16"        | NA               | -      | -      |
| 18"        | NA               | -      | -      |
| 20"        | NA               | -      | -      |
| #2500      |                  |        |        |
| 12"        | NA               | -      | -      |
| 14"        | 32.50"           | 46.17" | 4538   |
| 16"        | 35.25"           | 47.75" | 5665   |
| 18"        | 38.50"           | 53.3"  | 7442   |
| 20"        | 43.50"           | 57.5"  | 10665  |

Dimensions in inches, weights in pounds

**Note:** L : End to End Dimension  
H : Distance from Valve center to valve cap high point.



## Materials of Construction

| Part Description                    | Material                             |
|-------------------------------------|--------------------------------------|
| BODY                                | "15NiCuMoNb5 1.6368(WB 36)"          |
| BONNET                              | 15NiCuMoNb5 1.6368(WB 36)            |
| WEDGE                               | 15NiCuMoNb5 1.6368(WB 36)+STELLITE 6 |
| SEAT RING                           | 15NiCuMoNb5 1.6368(WB 36)+STELLITE 6 |
| THRUST RING                         | AISI 4340 OR 4140                    |
| GLAND                               | 11-13% CR                            |
| JUNK RING                           | 11-13% CR                            |
| STEM                                | ASTM A182 F6A                        |
| GLAND FLANGE                        | ASTM A515 GR 70                      |
| SEGMENT RING                        | AISI 4140                            |
| BONNET CARRIER                      | ASTM A515 GR 70                      |
| STUD ( BONNET-BONNET CARRIER JOINT) | ASTM A193 GR B7                      |
| NUT ( BONNET-BONNET CARRIER JOINT)  | ASTM A194 GR 2H                      |
| COLUMN PIPE                         | CARON STEEL                          |
| STUD ( BONNET CARRIER-COLUMN JOINT) | ASTM A193 GR B7                      |
| NUT ( BONNET CARRIER-COLUMN JOINT)  | ASTM A194 GR 2H                      |
| PACKING                             | GRAPHITE                             |
| STUD ( BODY-BONNET CARRIER JOINT)   | ASTM A193 GR B7                      |
| NUT ( BODY-BONNET CARRIER JOINT)    | ASTM A194 GR 2H                      |
| STUD ( BONNET - GLAND FLANGE JOINT) | ASTM A193 GR B7                      |
| NUT ( BONNET - GLAND FLANGE JOINT)  | ASTM A194 GR 2H                      |
| GASKET                              | GRAPHITE WITH SS CAPS                |
| ADAPTER PLATE MACHINING             | ASTM A515 GR 70                      |
| BYPASS VALVE                        | ASTM 182 F22                         |
| PIPE FOR BYPASS                     | ASTM A335 P22                        |
| ELBOW FOR BYPASS                    | ASTM 182 F22                         |
| T FITTING FOR BYPASS                | ASTM 182 F22                         |
| HEX HEAD CAP SCREW, ACTUATOR        | MFG STD                              |
| AIR WRENCH ADAPTER FOR GEAR BOX     | MFG STD                              |



# Overview Y-Globe Non-Return Stop Check Valve

## Y-Globe Non-Return Stop-Check Valves\*

1. Globe valves are normally installed with flow and pressure under the disc. Always consult with the factory before installing valves with flow in the other direction. Under certain service conditions or when valves are equipped with cylinders or electric motor actuators, there may be a cost advantage in designing and installing the valves with flow over the disc. If actuators are sized for these conditions, care must be taken to assure valves are installed correctly.
2. Globe valves are suitable for most throttling applications; however, they should not be used for throttling at less than 10-20% open. This can cause excessive vibration, noise, and damage to disc and seats. Use of smaller valves with lower flow capacity may permit the valve to be open a greater percentage, thus avoiding damage. Continuous severe throttling applications may require a control valve.
3. Non-return (Stop-Check) valves provide the same function as a globe valve with the addition of providing piston-lift-check valve protection in the event of backflow. The valve stem is not connected to the disc, and when the stem is in the open position then the disc is free to respond to the flow.

### \*ACTUATION

Can be supplied with a hammerblow handwheel, manual gear set, electric motor operator, pneumatic, or hydraulic cylinder operator

### STEM

Stainless steel stem is precision ground for minimal packing friction during operation.

### STEM GUIDE

Acts as anti-rotating device for the stem.

### YOKE

Designed to withstand seismic activities, the fully fabricated yoke features hassle-free assembly/ disassembly of topworks and simple actuator mounting.

### INTEGRAL BACKSEAT

Hard faced for maximum life.

### BODY

Streamlined flow path demonstrating high Cv factors which minimize pressure drop across a given system.

### LARGE BW ENDS

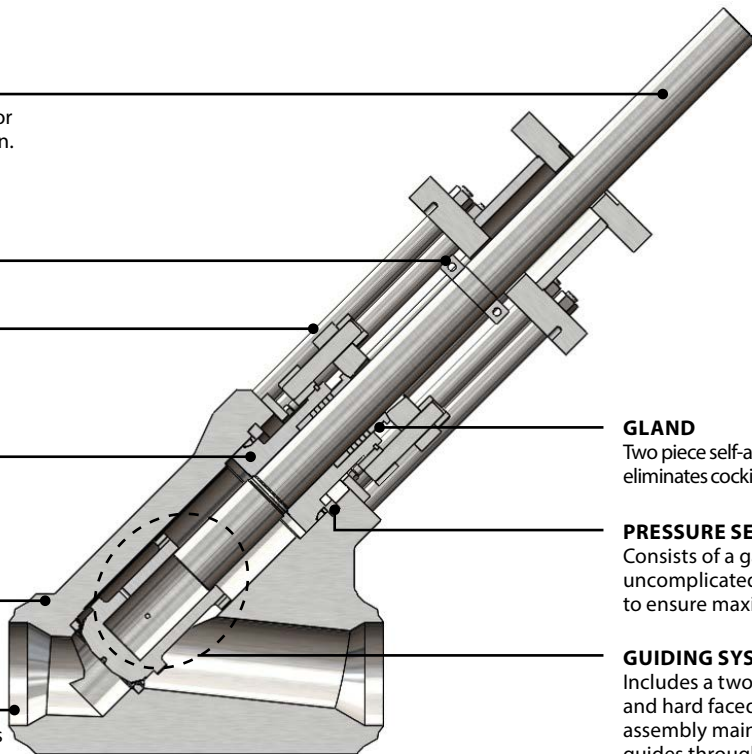
To match two different outside diameters

### BALANCED PLUG/DISC

With internal pressure self-relieving device (no external equalizing by-pass)

\*Pacific Valve® offers Graphite/SS Capsulated Pressure Seal Bonnet Gaskets as a standard, Mild Steel Silver Plated Pressure Seal Bonnet Gaskets are available on request.

\*For maximum reliability, it is recommended that Pacific Valves® Y-Globes Stop Check Valves be installed with flow axis horizontal and with bonnet above the valve in a vertical plane. Please consult factory for further details.



### GLAND

Two piece self-aligning gland and gland flange eliminates cocking if packing adjustment is required.

### PRESSURE SEAL DESIGN

Consists of a gasket, thrust ring and uncomplicated segmented retaining rings to ensure maximum bonnet seal\*.\*

### GUIDING SYSTEM

Includes a two-piece disc assembly and hard faced body guides. The disc assembly maintains contact with the guides through the full valve stroke.

### SEATING SURFACE

The disc and body seating surfaces are hard faced for extended service.





# Technical Data Y-Globe Non-Return Stop Check Valve

## Materials of Construction

| Part Description                       | Material                            |
|--|-------------------------------------|
| BODY                                   | ASTM A182 GR F91                    |
| BONNET                                 | ASTM A182 GR F91                    |
| DISC                                   | ASTM A182 GR F91 + OVERLAY ALLOY 21 |
| SEAT RING                              | ASTM A182 GR F91 + OVERLAY ALLOY 21 |
| THRUST RING                            | AISI 4340 OR 4140                   |
| GLAND                                  | 11-13% CR                           |
| JUNK RING                              | 11-13% CR                           |
| STEM                                   | ASTM A182 F6A                       |
| GLAND FLANGE                           | ASTM A515 GR 70                     |
| SEGMENT RING                           | AISI 4140                           |
| BONNET CARRIER                         | ASTM A515 GR 70                     |
| PACKING                                | GRAPHITE                            |
| STUD ( BODY-YOKE BOTTOM PLATE JOINT)   | ASTM A193 GR B7                     |
| NUT ( BODY-YOKE BOTTOM PLATE JOINT)    | ASTM A194 GR 2H                     |
| STUD ( BONNET - GLAND FLANGE JOINT)    | ASTM A193 GR B7                     |
| NUT ( BONNET - GLAND FLANGE JOINT)     | ASTM A194 GR 2H                     |
| GASKET                                 | GRAPHITE WITH SS CAPS               |
| ADAPTER PLATE MACHINING                | ASTM A515 GR 70                     |
| RETAINER RING                          | AISI 4340 OR 4140                   |
| BONNET COLLAR                          | ASTM A515 GR 70                     |
| YOKE BOTTOM PLATE                      | CARON STEEL (ASTM A36)              |
| YOKE TOP PLATE                         | CARON STEEL (ASTM A36)              |
| YOKE PIPE                              | CARON STEEL (ASTM A105)             |
| STEM GUIDE                             | ASTM A515 GR 70                     |
| HEX HEAD CAP SCEW-UPPPER ADAPTER PLATE | ASTM A193 GR B7                     |
| JACK SCREW                             | ASTM A193 GR B7                     |
| KEY (STEM GUIDE)                       | 11-13 % CR                          |
| STUD (STEM GUIDE JOINT)                | ASTM A193 GR B7                     |
| NUT (STEM GUIDE JOINT)                 | ASTM A194 GR 2H                     |
| BYPASS VALVE                           | ASTM A182 GR F91                    |
| PIPE FOR BYPASS                        | ASTM A335 P91                       |
| ELBOW FOR BYPASS                       | ASTM A182 GR F91                    |
| T FITTING FOR BYPASS                   | ASTM A182 GR F91                    |
| HEX HEAD CAP SCREW, ACTUATOR           | MFG STD                             |
| AIR WRENCH ADAPTER FOR GEAR BOX        | MFG STD                             |

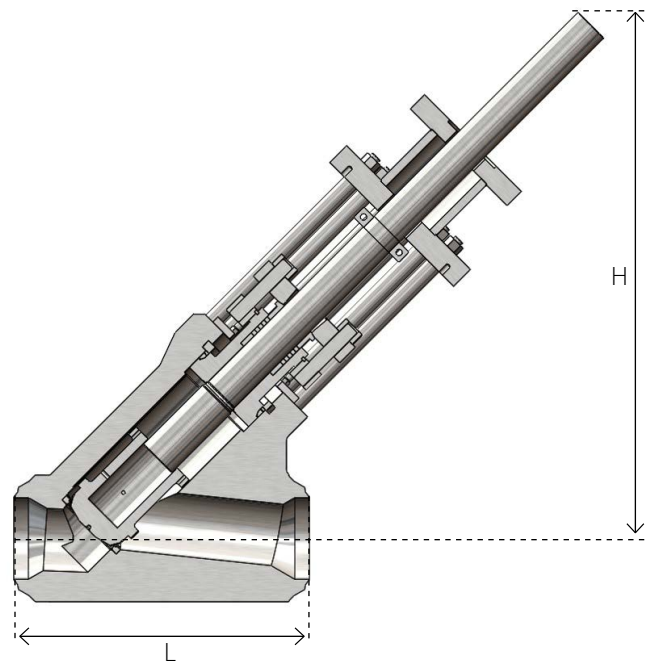
## Dimensions & Weights

| #1500      |                    |                  |        |        |
|------------|--------------------|------------------|--------|--------|
| Valve Size | ASME Short Pattern | Custom Short End | H      | Weight |
| 12"        | 39.00"             | NA               | 63.34" | 4063   |
| 14"        | 42.00"             | NA               | 66.16" | 5040   |
| 16"        | 47.00"             | NA               | 74.1"  | 7165   |
| 18"        | NA                 | 50.00"           | 81.83" | 9386   |
| #2500      |                    |                  |        |        |
| 12"        | 41.00"             | NA               | 59.85" | 4624   |
| 14"        | NA                 | 40.50"           | 72.07" | 6914   |
| 16"        | NA                 | 43.50"           | 72.10" | 7678   |
| 18"        | NA                 | 47.50"           | 76.55" | 10014  |

Dimensions in inches, weights in pounds

Note: L : End to End Dimension

H : Distance from Valve center to valve cap high point.



## Cv Values

|     |       |      |
|-----|-------|------|
| 12" | #1500 | 2771 |
| 14" | #1500 | 3332 |
| 16" | #1500 | 4527 |
| 18" | #1500 | 5727 |
| 12" | #2500 | 1913 |
| 14" | #2500 | 2323 |
| 16" | #2500 | 3170 |
| 18" | #2500 | 4023 |



# Overview Swing Check Valves

## Check Valves

### Highly Efficient

The self-aligning disc-hinge assembly and tapered seat ring allow sealing in no-flow conditions and/or in the case of flow reversal. The advantage of this design is flow is only permitted in one direction to protect major plant equipment, as well as minimizing backflow during seating of the disc.

### Tight Shutoff

Spherical profile of the disc mounting arm allows for the disc to pivot about the hinge bore so that the disc is consistently aligned with the seat to provide exceptionally tight shutoff, and ensures the disc is always seated in no-flow conditions.

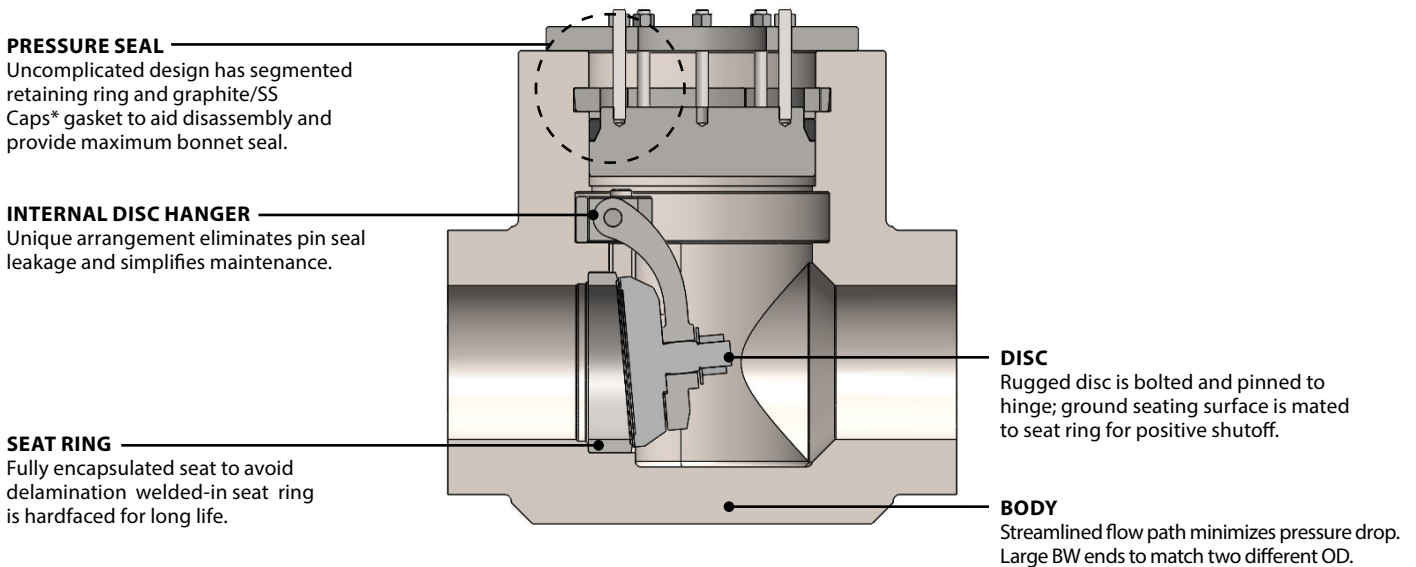
## General Design Features

### Long Life

The positive internal disc stop is an integral part of the body casting, providing a robust stopping point of the disc to prevent fluttering. Hardfaced seating surfaces prolong the life of the disc by reducing wear during normal operation where the disc can experience higher impacts due to the pendulum effect.

### Internal Disc Hanger

Having the disc internally hinge eliminates body wall penetrations. The unique Pacific swing check valve not only eliminates potential leakage through external hinge pins, but the disc-hinge assembly is designed for ease of maintenance, by having only two bolts in the disc bracket that allow full removal of the disc-hinge assembly.



Swing Check Valve

#### PACIFIC VALVES® CODES AND STANDARDS:

Years of research and development, together with practical experience in reconditioning all types of valves, have gone into the design and manufacture of Pacific Valves®. High quality material and workmanship, combined with the modern manufacturing methods used in producing these valves, is your assurance of a dependable, uniform product. Pacific Valves® are designed in accordance with applicable requirements of the latest edition of the following standards.

API – American Petroleum Institute

MSS – Manufacturers' Standardization Society of the Valve and Fittings Industry

ASME – American Society of Mechanical Engineers

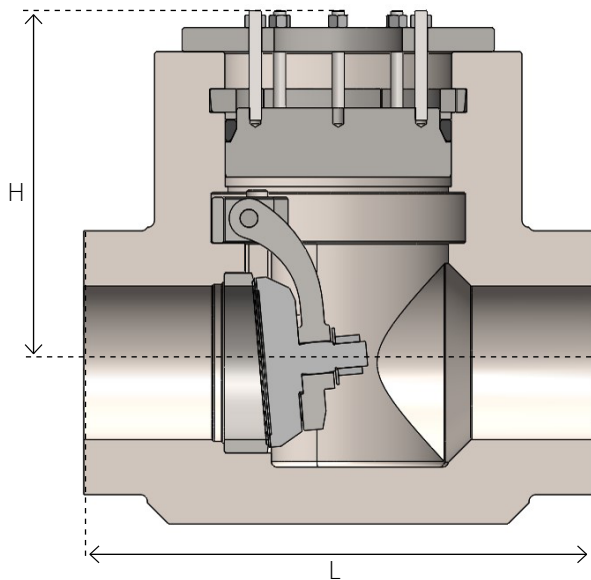
# Technical Data Swing Check Valves

## Dimensions & Weights

| #1500      |                  |        |        |
|------------|------------------|--------|--------|
| Valve Size | Custom Short End | H      | Weight |
| 12"        | 26.75"           | 17.81" | 1878   |
| 14"        | NA               | -      | -      |
| 16"        | NA               | -      | -      |
| 18"        | NA               | -      | -      |
| 20"        | NA               | -      | -      |
| #2500      |                  |        |        |
| 12"        | NA               | -      | -      |
| 14"        | 30.00"           | 22.08" | 3209   |
| 16"        | 36.00"           | 24.9"  | 4937   |
| 18"        | 39.00"           | 30.29" | 7213   |
| 20"        | 43.75"           | 29.11" | 8696   |

Dimensions in inches, weights in pounds

**Note:** L : End to End Dimension  
H : Distance from Valve center to valve cap high point.



## Materials of Construction

| Part Description                     | Material                               |
|--------------------------------------|--|
| BODY MACHINED                        | "15NiCuMoNb5 1.6368(WB 36)"            |
| BODY PRE-MACHINED                    | "15NiCuMoNb5 1.6368(WB 36)"            |
| COVER/BONNET                         | "15NiCuMoNb5 1.6368(WB 36)"            |
| DISC MACHINED + OVERLAY              | 15NiCuMoNb5 1.6368(WB 36) + Stellite 6 |
| SEAT RING MACHINED + OVERLAY         | 15NiCuMoNb5 1.6368(WB 36) + Stellite 6 |
| THRUST RING                          | AISI 4340 OR 4140                      |
| SEGMENT RING                         | AISI 4140                              |
| BONNET CARRIER                       | ASTM A515 GR 70                        |
| GASKET                               | GRAPHITE WITH SS CAPS                  |
| SPLIT PIN                            | STEEL                                  |
| DISC NUT                             | ASTM A194 GR 2H                        |
| WASHER                               | STEEL                                  |
| SOCKET HEADED CAP SCREW              | ASTM A193 GR B7                        |
| HINGE CASTING                        | ASTM A217 GR WC6                       |
| HINGE MACHINING                      | ASTM A217 GR WC6                       |
| HINGE BRACKET                        | "15NiCuMoNb5 1.6368(WB 36)"            |
| HINGE PIN                            | "X39CrMo17-1 1.4122"                   |
| STUD (BONNET - BONNET CARRIER JOINT) | ASTM A193 GR B7                        |
| NUT (BONNET - BONNET CARRIER JOINT)  | ASTM A194 GR 2H                        |

## Cv Values

|     |       |      |
|-----|-------|------|
| 12" | #1500 | 3864 |
| 14" | #2500 | 3158 |
| 16" | #2500 | 3717 |
| 18" | #2500 | 5100 |
| 20" | #2500 | 6240 |



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